

D. J.
#4 5-11-02
IDS w/lepers
PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: VICKERS et al.

Docket No: 21521-300101

Serial No: Not assigned

Group Art Unit Not Assigned

Filed: Herewith

Examiner: Not Assigned

For: "METHOD AND APPARATUS FOR AUDIO LOUDNESS AND DYNAMICS MATCHING"



Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicants submits herewith the references listed on the attached form PTO-1449 of which Applicants are aware that may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), nor as an admission that the information cited is, or is considered to be, material to patent ability, nor an admission that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Respectfully submitted,

DATE: January 9, 2002

P. Francois de Villiers
Reg. No: 48,200

OPPENHEIMER WOLFF & DONNELLY LLP
P.O. Box 10356
Palo Alto, CA 94303
(650) 320-4000

☒ In the event any parts of this application are missing, please treat this as a filing under 37 CFR 1.53 as defined just above.

CERTIFICATE OF MAILING (37 CFR 1.10(A))	
CERTIFICATE OF MAILING BY "EXPRESS MAIL" - Rule 10: I hereby certify that this correspondence is being deposited with the U. S. Postal Service "Express Mail Post Office to Addressee" under 37 CFR 1.10 as Express Mail No. EL745082012US addressed to the Box New Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.	
Date: January 9, 2002	 Sharyl Brown

(Information Disclosure Statement)

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Docket No. 21521-300101	Application No.: Not assigned
	Applicant: Vickers et al.	
	Filing Date: Herewith	Group: Unassigned

JCE 9 U.S. P. 10/043591
 01/09/02

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						
	B						
	C						
	D						
	E						
	F						
	G						
	H						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	M	Sound Forge Product Literature, www.sonicfoundry.com/products/NewShowProduct.asp?PID+426 , date unknown
	N	Neoran et al., "A Perspective Loudness-Sensitive Leveler for Audio Broadcasting and Mastering", date unknown
	O	Dolby Laboratories, Inc., "A Guide to Dolby Metadata", date unknown
	P	Vickers, "Automatic Long-Term Loudness and Dynamics Matching", Audio Engineering Society 111 th Convention, Sept. 21-24, 2001.
	R	Kraight, "Aliasing in Digital Clippers and Compressors" J. Audio Eng. Soc., Vol. 48, No. 11, Nov. 2000, pp. 1060-1065.
	S	Floru, "Attack and Release Time Constants in RMS-Based Feedback Compressors", J. Audio Eng. Soc., Vol. 47, No. 10, October 1999, pp.788-803.
	T	Robinson, et al. "Dynamic Range Control via Metadata" AES 107 th Convention, Sept. 24-27, 1999.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Docket No. 21521-300101	Application No.: Not assigned
	Applicant: Vickers et al.	
	Filing Date: Herewith	Group: Unassigned

JCE79 U.S. PTO
 10/04/2591
 01/09/02

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						
	B						
	C						
	D						
	E						
	F						
	G						
	H						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	M	Zwicker, et al. "Psychoacoustics", January 1999, pp.315-325.
	N	Dutilleux, "Filters, Delays, Modulations and Demodulations A Tutorial", ZKM Institute for Music and Acoustics, November 19-21, 1998.
	O	Dolby Laboratories, Inc. "Dolby Digital Broadcast Implementation Guidelines", 1998.
	P	Moore, "A Model for the Prediction of Thresholds, Loudness, and Partial Loudness", J. Audio Eng. Soc., Vol. 45, No. 4, April 1997, pp. 224-239.
	R	Allen, "Are Movies Too Loud?", SMPTE Film Conference, March 22, 1997.
	S	Stone, "Dynamic aspects of loudness: A real-time loudness meter", British Journal of Audiology, Vol. 30, 1996.
	T	Zolzer, "Digital Audio Signal Processing", Technical University of Hamburg-Harburg, Germany, 1995, pp. 207-219.
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Docket No. 21521-300101	Application No.: Not assigned
	Applicant: Vickers et al.	
	Filing Date: Herewith	Group: Unassigned

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						
	B						
	C						
	D						
	E						
	F						
	G						
	H						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	M	Bateman, et al., "Digital Signal Processing Design", Computer Science Press, 1989, pp. 307-311.
	N	McNally, "Dynamic Range Control of Digital Audio Signals", J. Audio Eng. Soc., Vol. 32, No. 5, May 1984, pp. 316-327.
	O	Zwicker, "Critical Band Width in Loudness Summation", The Journal of The Acoustical Society of America, Vol. 20, No. 5, May 1957, pp. 548-557.
	P	
	R	
	S	
	T	
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.